



Manchester  
City of Trees

GROWING MORE TREES  
FOR GREATER MANCHESTER

# City of Trees

## Making Trees Count- Creating a Greener Greater Manchester



Bryan Cosgrove  
City of Trees





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# What is a City of Trees?

GROWING MORE TREES  
FOR GREATER MANCHESTER

City of Trees is an innovative and exciting movement set to re-invigorate Greater Manchester's landscape by transforming underused, unloved woodland and planting a tree for every person who lives there, within a generation.

City of trees is a movement, bringing together the public, private and third sectors, and the people of Greater Manchester.



# THE GOAL



GROWING MORE TREES  
FOR GREATER MANCHESTER

## 3m

trees, planted across  
the city region over  
the next two decades

## 1.5%

of land deemed as  
ready for planting,  
converted to woodland

## 2,000

hectares of currently  
unmanaged woodland  
brought into productive,  
beneficial state







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# Over 100 Partners & Growing all the Time

GROWING MORE TREES  
FOR GREATER MANCHESTER



CAPITAL&CENTRIC



ALLIED LONDON

patagonia

ARUP

Wates

tpm landscape

Select Property Group



SIEMENS



FARRELLS



MILLS & REEVE

GallifordTry



DS.EMOTION



Airport City  
Manchester



GMCA  
GREATER MANCHESTER  
COMBINED AUTHORITY



OMI



RSK



EXTERIOR  
ARCHITECTURE



bruntwood

BDP.



BroadwayMalvern

stepplaces



LAMSON ARCHITECTURE

deeproot



GILLESPIES



JACOBS

DiTrafford



I WANT TO PLANT

TRILOGY



creative concern



WILSON & PARTNERS



urbansplash

Urban&Civic



Turley



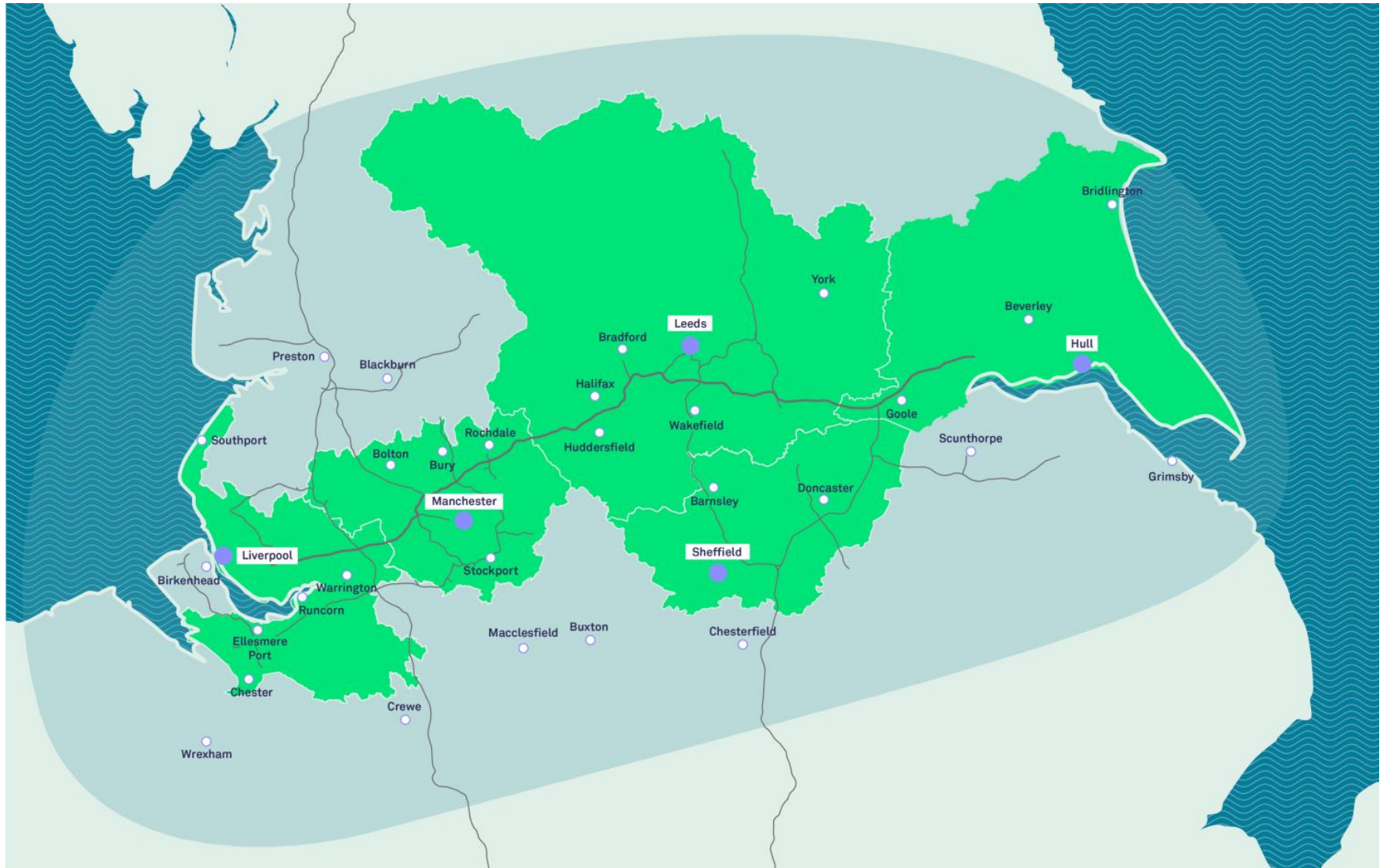




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# A new Northern Forest

GROWING MORE TREES  
FOR GREATER MANCHESTER





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# Why we need a City of Trees

GROWING MORE TREES  
FOR GREATER MANCHESTER

Healthier and  
happier  
communities

Build resilience  
to climate change

Connecting  
people to nature

Boost the local  
economy





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# The Story So Far

GROWING MORE TREES  
OR GREATER MANCHESTER



459,929

Total number of trees  
planted



352

Street trees planted



12,304

Children inspired to love  
trees



11,395

People connected to nature



11,753

Volunteer hours donated



240.68

Total hectares of woodland  
managed



77

Orchards created



610

Metres of hedgerow created



780

Bags of rubbish collected







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# Creating Places for People

GROWING MORE TREES  
FOR GREATER MANCHESTER







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# Planting Trees for Air Quality

GROWING MORE TREES  
FOR GREATER MANCHESTER

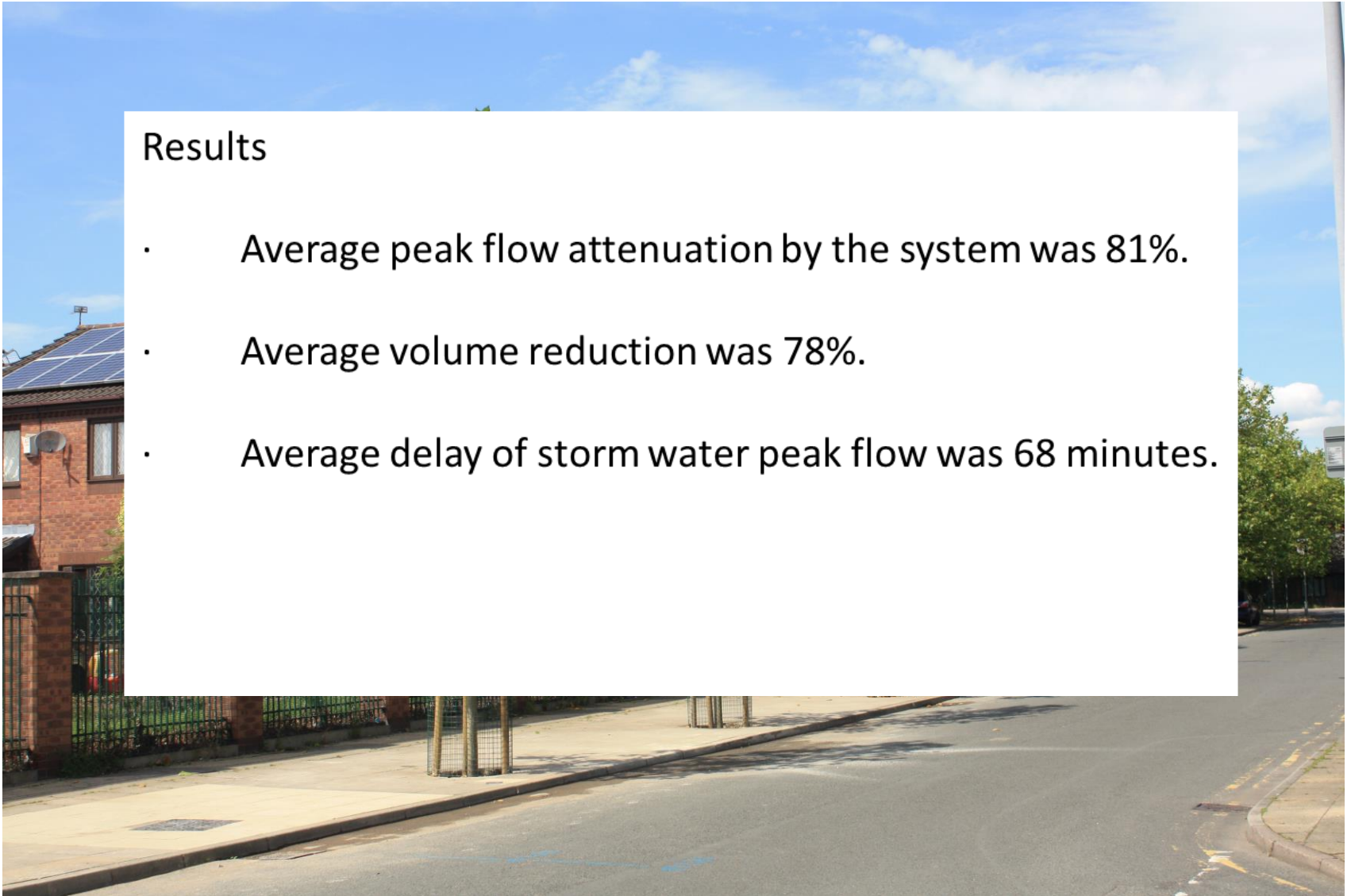




# Planting Trees for Water

## Results

- Average peak flow attenuation by the system was 81%.
- Average volume reduction was 78%.
- Average delay of storm water peak flow was 68 minutes.







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# Using Woodlands to Manage Water

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# Managing our Woodlands

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# Over 100 Partners & Growing all the Time

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FOR GREATER MANCHESTER







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# Join the club

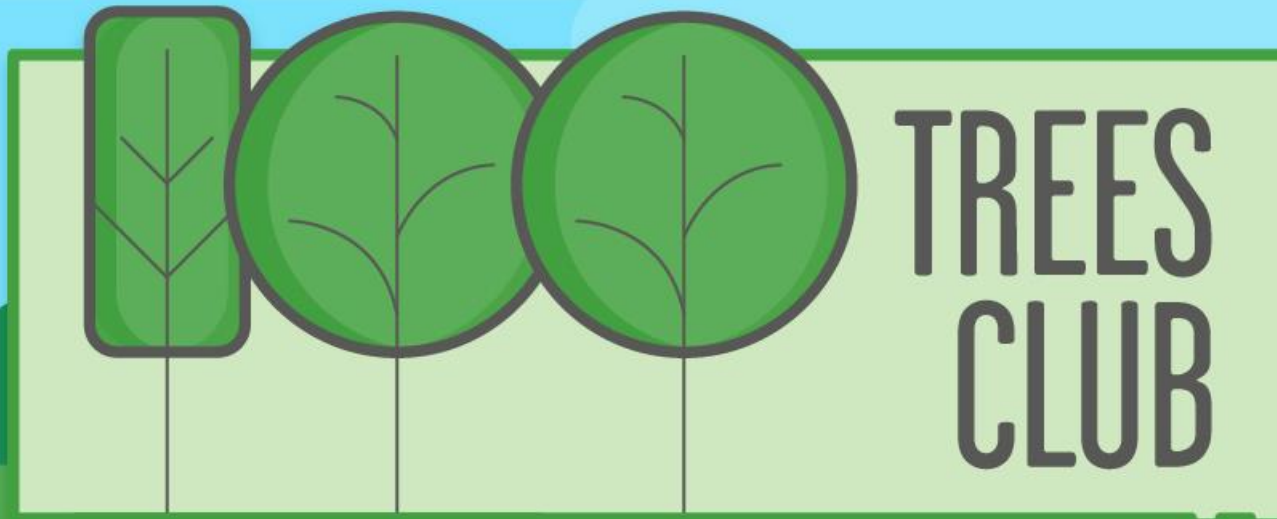
GROWING MORE TREES  
FOR GREATER MANCHESTER

Support your CSR  
commitments

Exclusive  
volunteer days

Annual  
networking event

Help plant 100  
trees!





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**City of Trees**

GROWING MORE TREES  
FOR GREATER MANCHESTER

# This is Greater Manchester

**Our vision is to make Greater Manchester one of the best places in the world to grow up, get on and grow old**



# All Our Trees

## Greater Manchester's Tree and Woodland Strategy

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# i-Tree - Scale of the challenge

- Between May and November 2018, City of Trees recruited and coordinated a team of 57 surveyors ,visiting almost 2,000 sample plots.
- Data on species, mass, and condition collected from more than 6,000 trees across Greater Manchester.
- Results were run through i-Tree software, combined with local pollution and weather data, and CAVAT values to produce extrapolated model of structure, function and value of Greater Manchester's entire canopy.
- Largest ever i-Tree survey undertaken outside the US - around three times the size of Greater London's, in terms of plots surveyed.
- Model was stratified by District



There are an estimated **11,321,386 trees** in Greater Manchester, which equates to just **15.7%** tree canopy cover.



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#### STATISTIC #4

The most common species of trees in Greater Manchester are **Hawthorn**, **Sycamore** and **English Oak**.



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STATISTIC #5

Trees in Greater Manchester  
remove **847 tonnes** of pollutants  
from our air each year.



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STATISTIC #7

Trees intercept **1,644,415m<sup>3</sup>** of stormwater runoff per year in Greater Manchester.



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Greater Manchester's trees  
sequester **56,530 tonnes**  
of carbon each year.

The current carbon storage  
of all trees is **1,573,013 tonnes.**



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## STATISTIC #1

The total annual economic value of air pollution filtration, stormwater attenuation and carbon sequestration in Greater Manchester's trees is **£33,298,891.**



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## STATISTIC #8

Approx. **1 million trees** are in danger of being lost in Greater Manchester due to pests and diseases such as Ash Dieback and Horse Chestnut Bleeding Canker.



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# New Planting

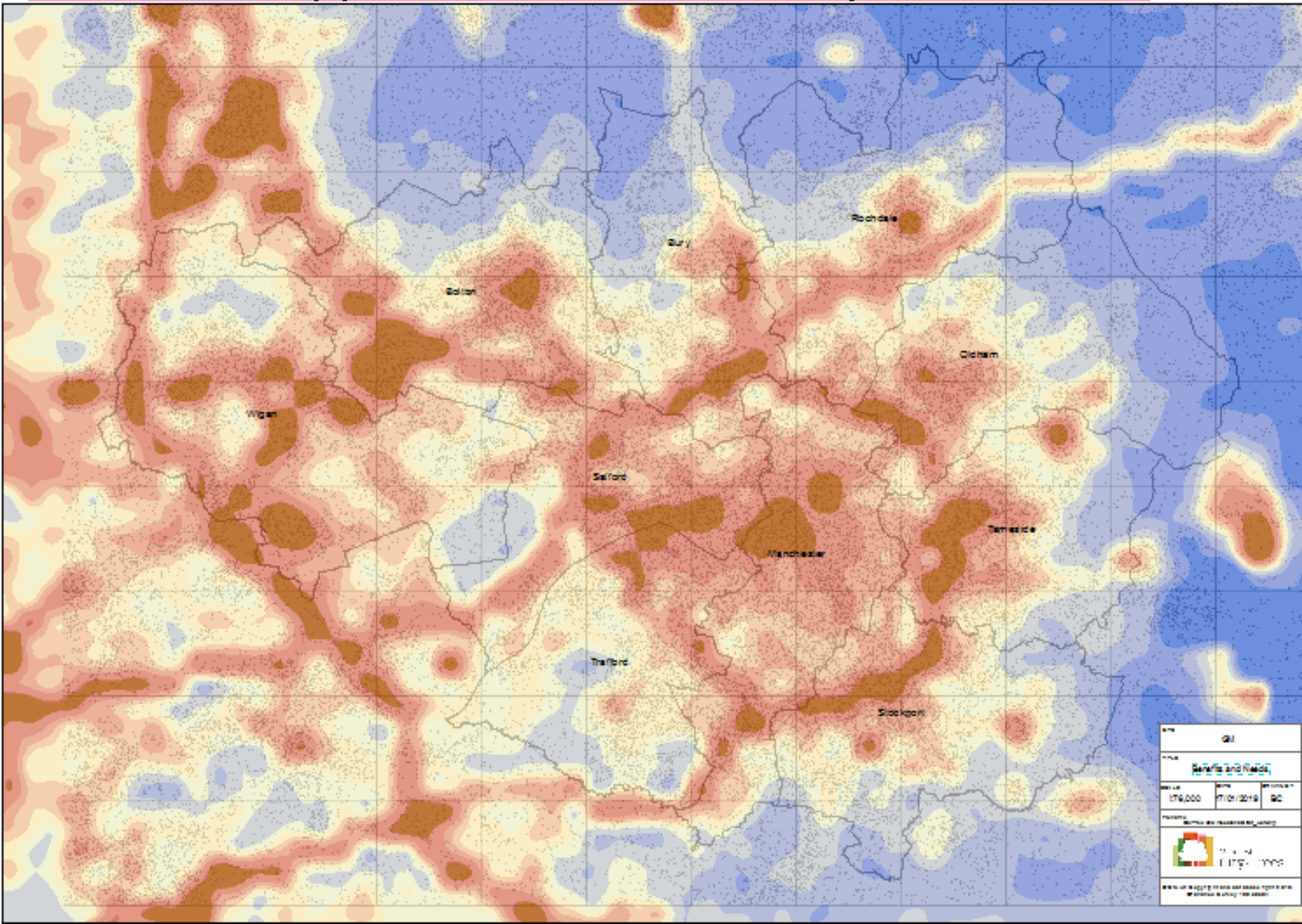




# Geographical Needs and Opportunities

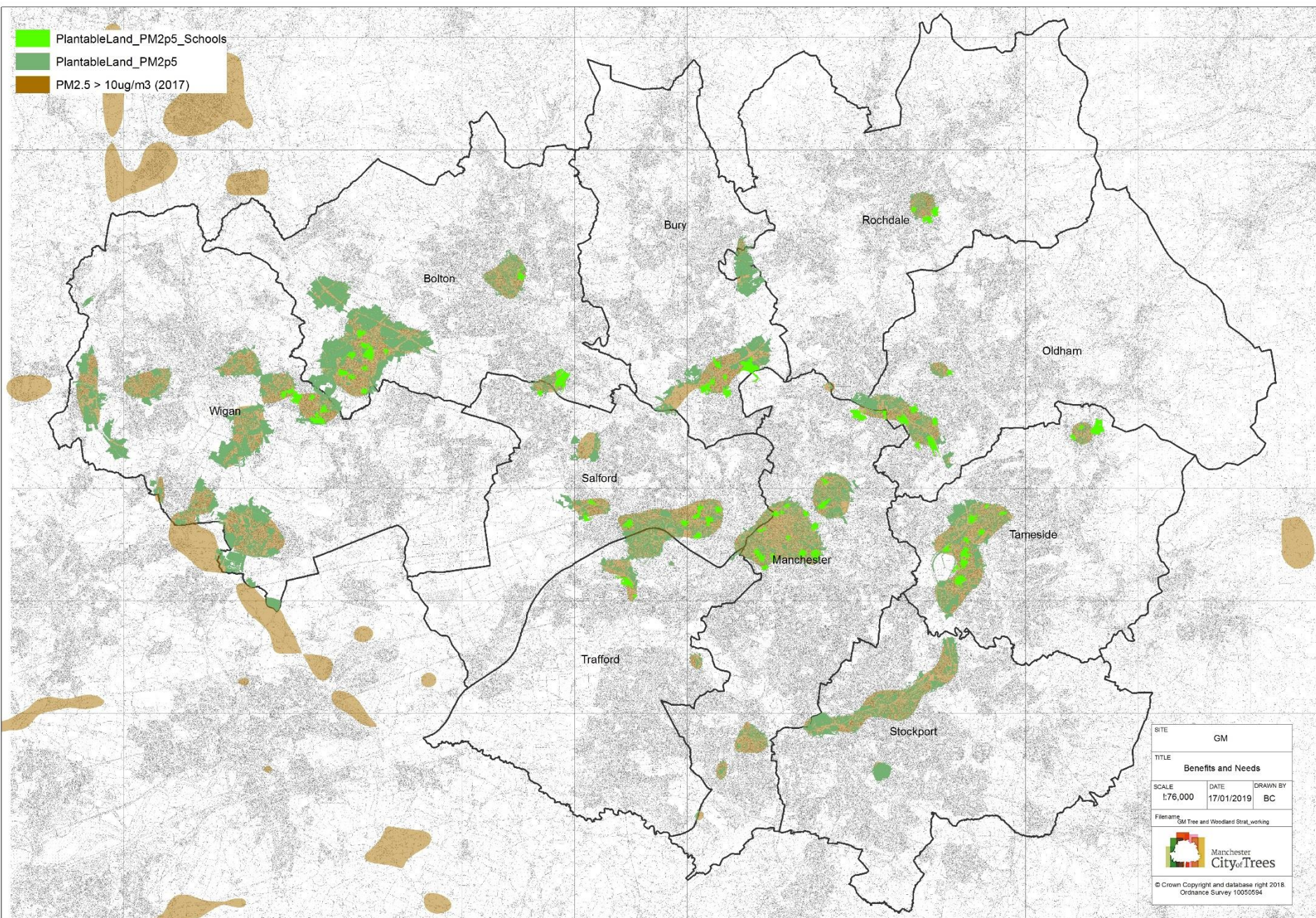
- 42% of GM “notionally” plantable
- Some locations where appropriate planting could deliver specific benefits:
  - **Air quality improvements**
  - Climate regulation
  - Enhancing habitat and wildlife
  - Improved health outcomes
  - Improving place
  - **Water quality and flood management**

# Needs and Opportunities – Air Quality: Particulates



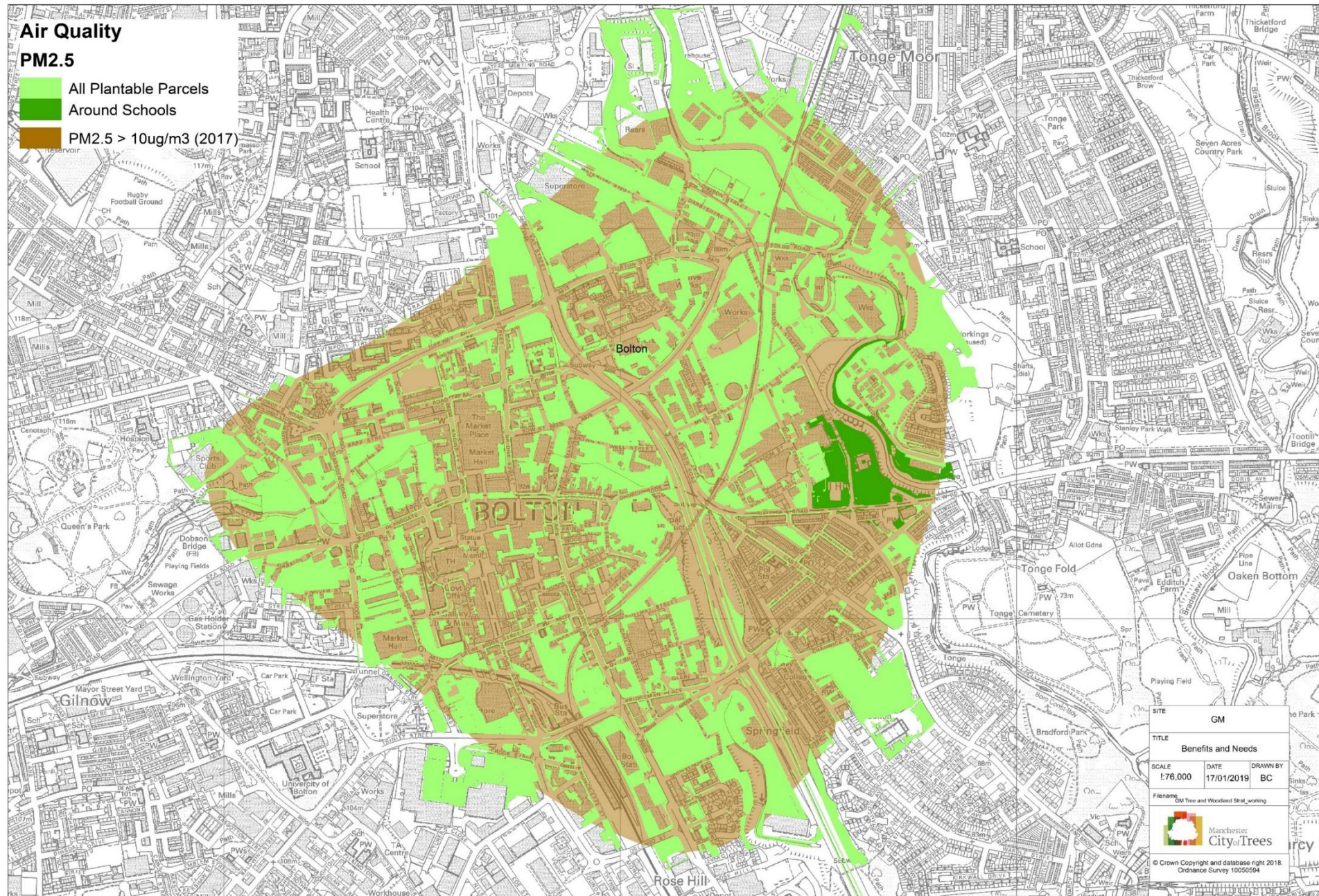


# Needs and Opportunities – Air Quality Improvements: Particulates





# Needs and Opportunities – Air Quality





# Needs and Opportunities – Climate Regulation

PlantableLand\_Cooling

ASCCUE\_29deg

2050 max temp

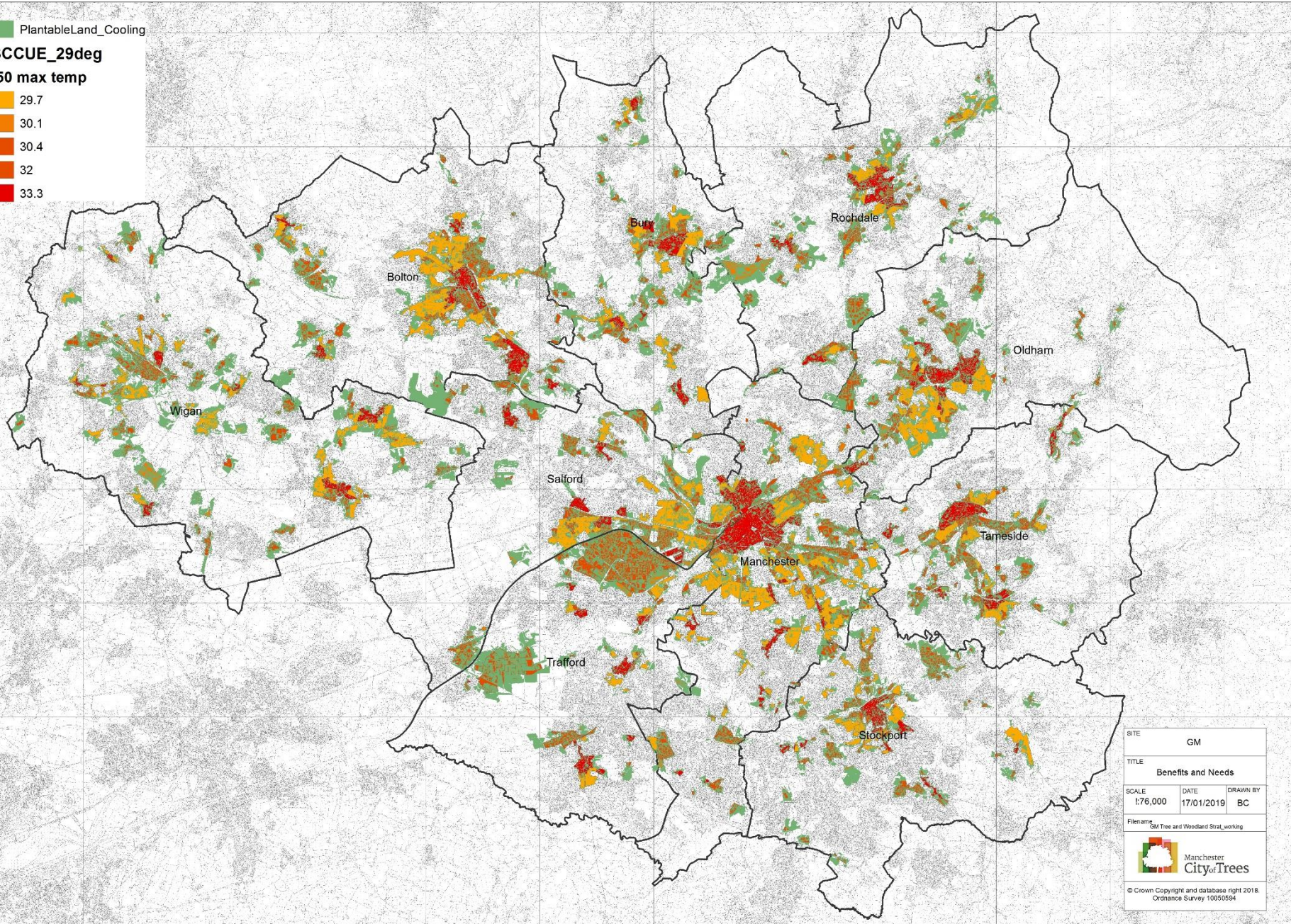
29.7

30.1

30.4

32

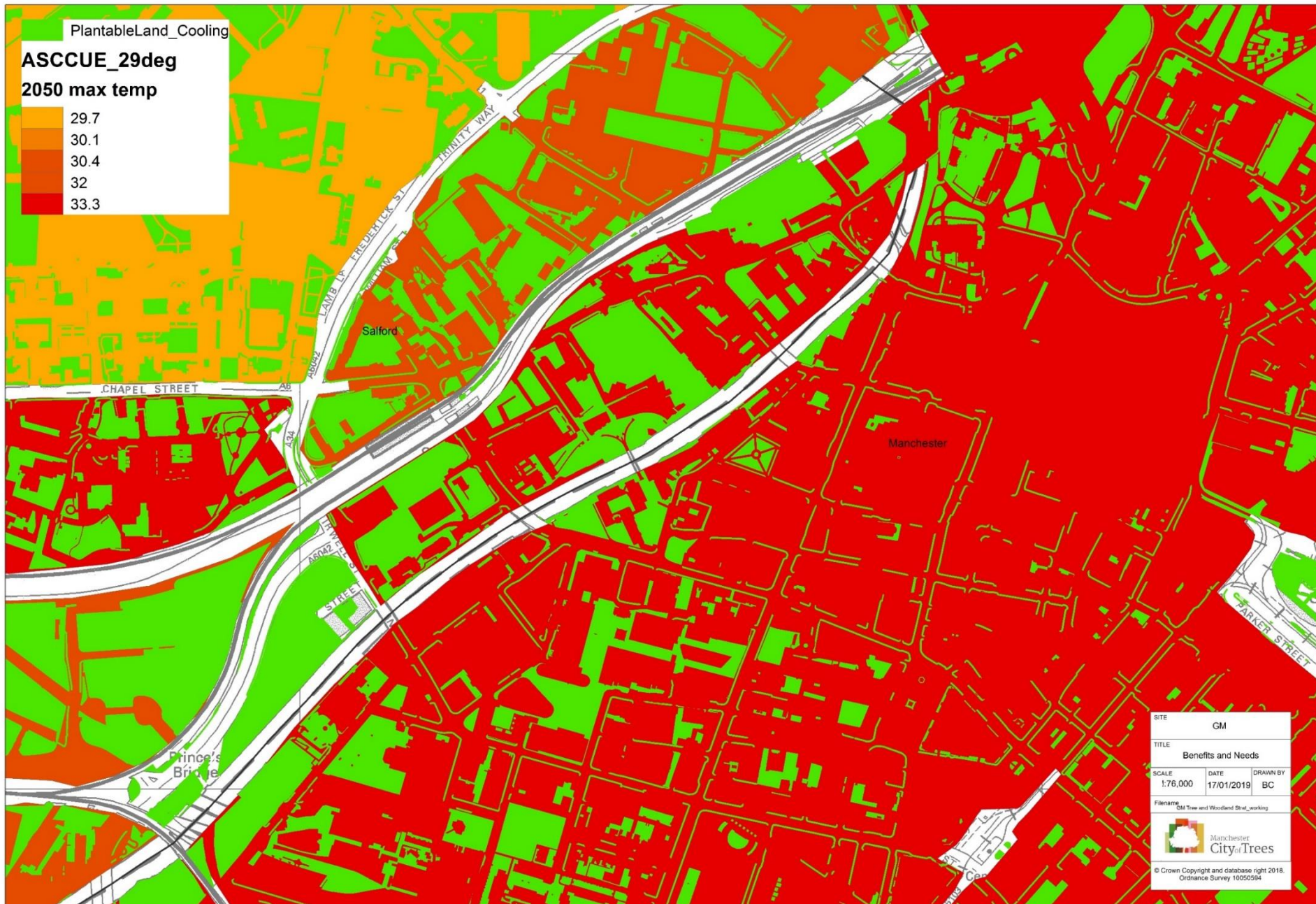
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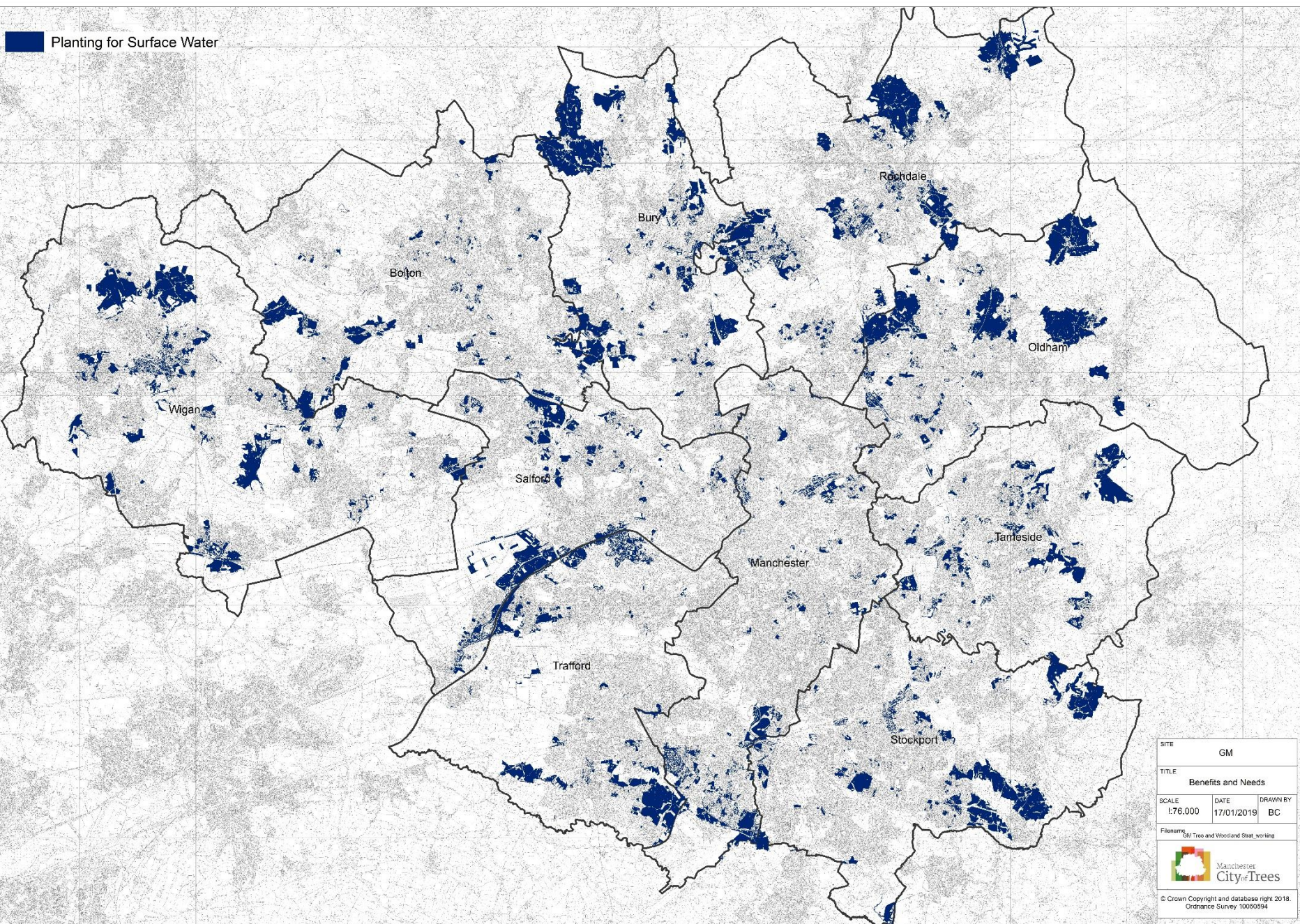


# Needs and Opportunities – Climate Regulation





# Needs and Opportunities – Surface Water

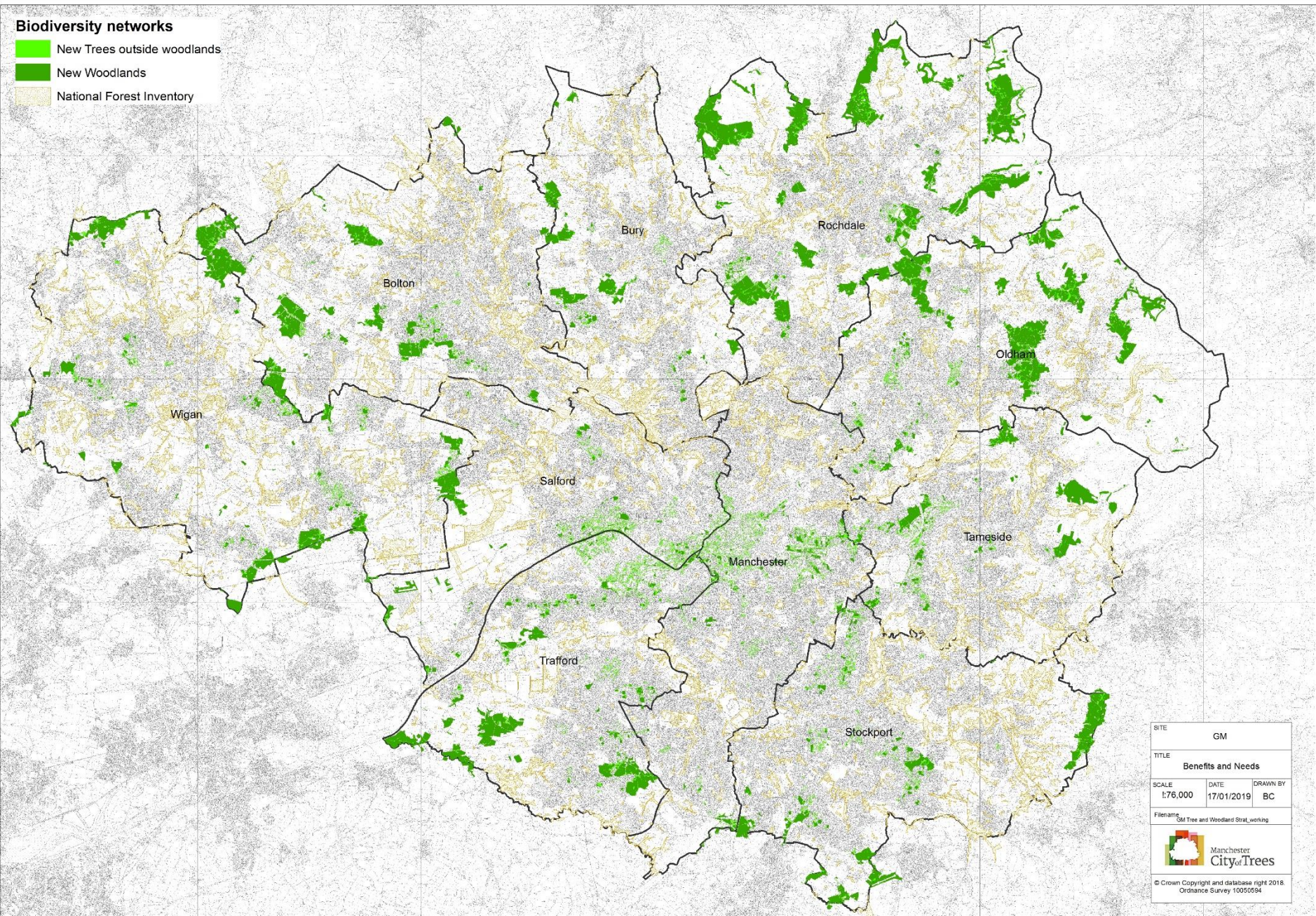




# Needs and Opportunities – Biodiversity – Recovery Networks

## Biodiversity networks

- New Trees outside woodlands
- New Woodlands
- National Forest Inventory



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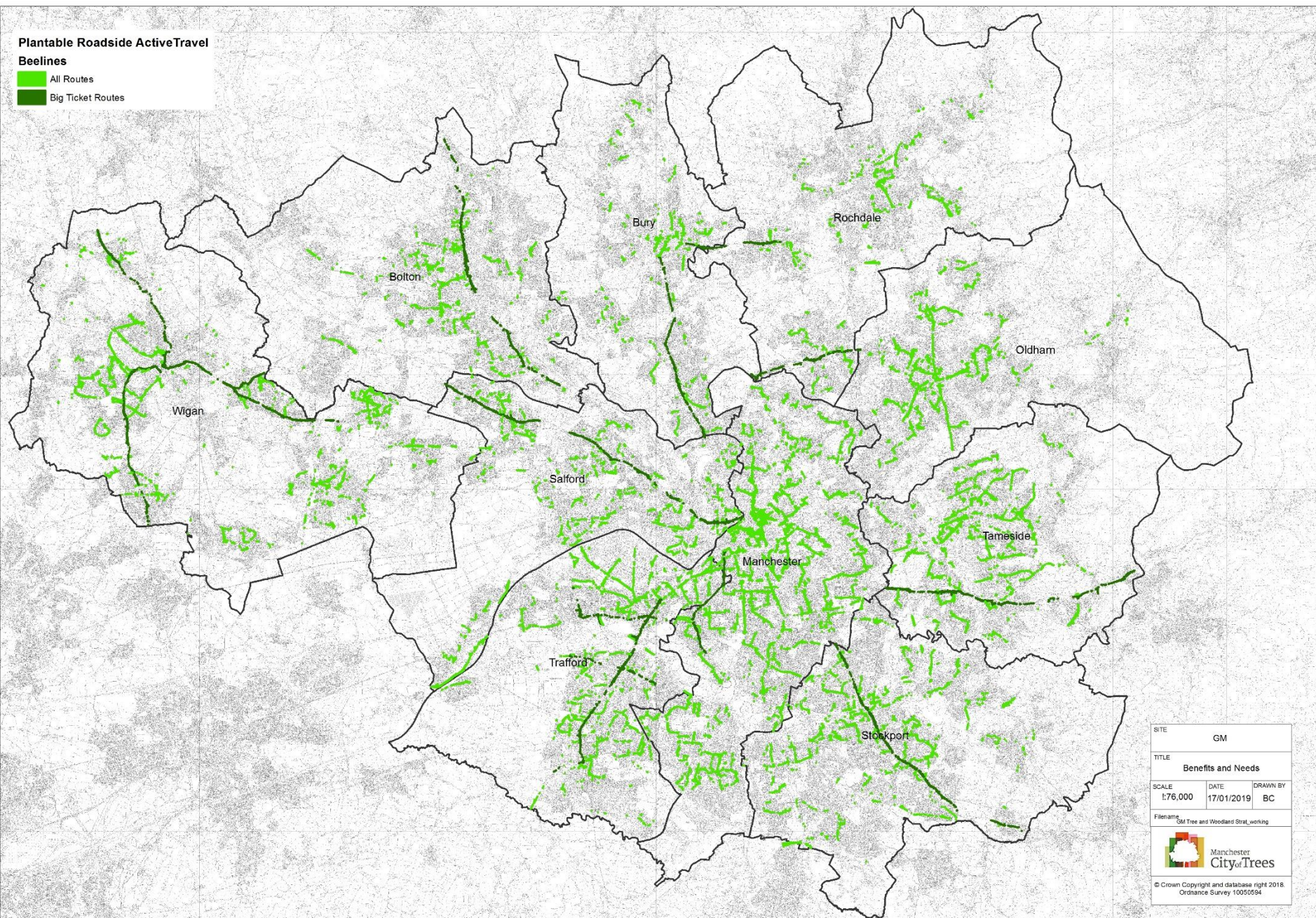


# Needs and Opportunities – Health – Active Travel

## Plantable Roadside ActiveTravel

### Beelines

- All Routes
- Big Ticket Routes




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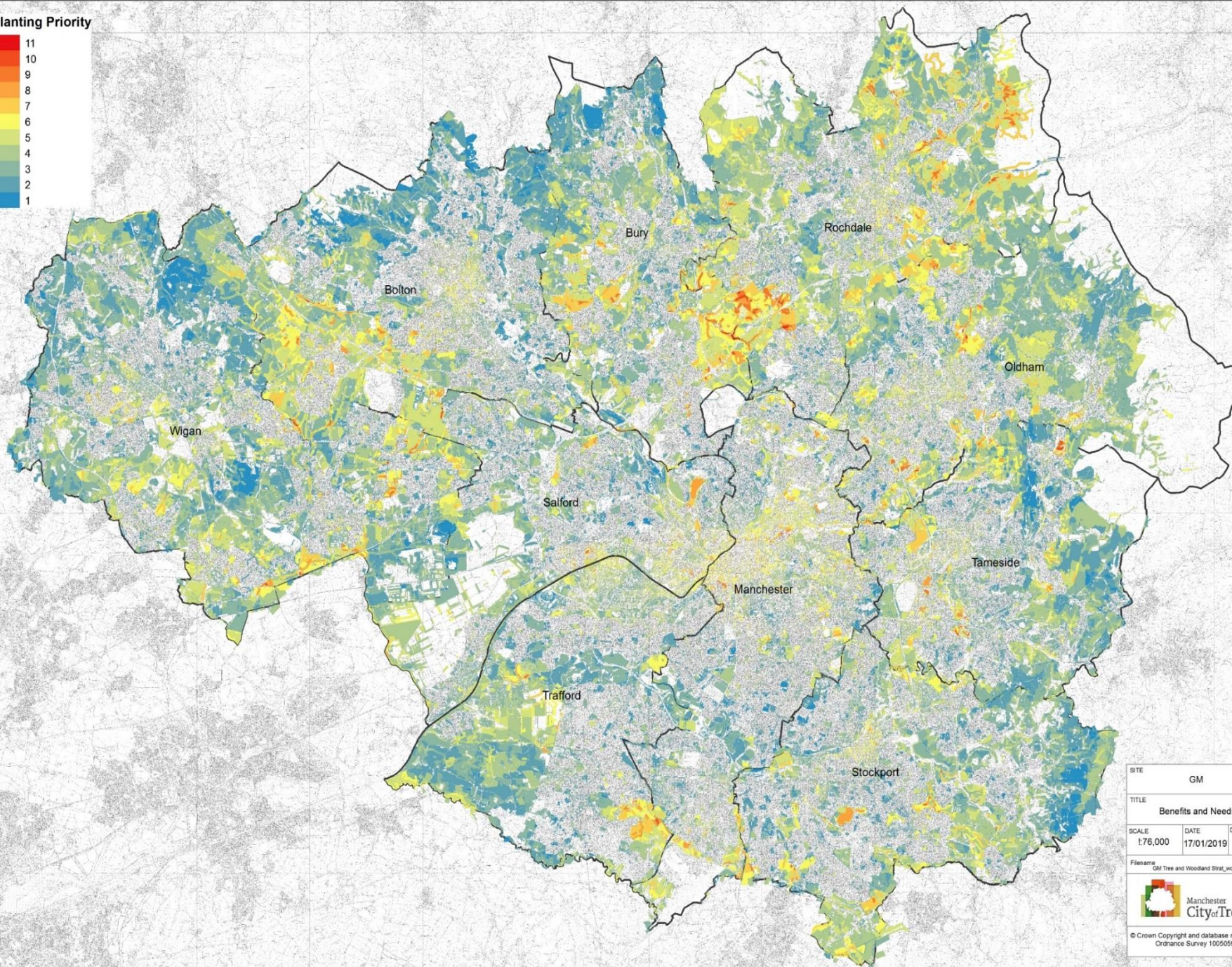
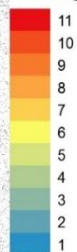
# Needs and Opportunities – Placemaking - Retail

Place Making - Retail

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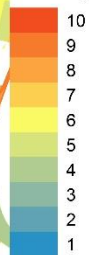
# Planting Priority



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**Planting Priority**



Salford

Manchester

Trafford

Trafford

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# Thank you



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